

09/830706

JC08 Rec'd PCT/PTO 27 APR 2001

SEQUENCE LISTING

<110> Medical & Biological Laboratories Co.,Ltd.

<120> Thioredoxin reductase II

<130> M3-007PCT

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<150> JP 1998-310422

<151> 1998-10-30

<160> 37

<170> PatentIn Ver. 2.0

<210> 1

<211> 1959

<212> DNA

<213> Homo sapiens

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<221> CDS

<222> (10)..(1572)

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<221> misc_structure

<222> (1567)..(1569)

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<222> (1664)..(1666)

<223> tga is transrated to selenosysteine, shown by Xaa.

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cgg acg cag gcc gtg gcg ggc ggg gtg cgg ggc gcg gcg cgg ggc gca 99

Arg Thr Gln Ala Val Ala Gly Gly Val Arg Gly Ala Ala Arg Gly Ala

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25

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gca gca ggt cag cgg gac tat gat ctc ctg gtg gtc ggc ggg gga tct 147

Ala Ala Gly Gln Arg Asp Tyr Asp Leu Leu Val Val Gly Gly Gly Ser

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ggt ggc ctg gct tgt gcc aag gag gcc gcc cag ctg gga agg aag gtg 195

Gly Gly Leu Ala Cys Ala Lys Glu Ala Ala Gln Leu Gly Arg Lys Val

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FBI/DOJ - 9020350

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Gln	Gln	Met	Ser	Ser	Met	Val	Ile	Glu	His	Met	Ala	Ser	His	Gly	Thr		
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act cag aag atc ctg gtg gac tcc cgg gaa gcc acc tct gtg ccc cac Thr Gln Lys Ile Leu Val Asp Ser Arg Glu Ala Thr Ser Val Pro His 335 340 345 350			1059
atc tac gcc att ggt gac gtg gtg gag ggg cgg cct gag ctg aca ccc Ile Tyr Ala Ile Gly Asp Val Val Glu Gly Arg Pro Glu Leu Thr Pro 355 360 365			1107
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Phe Trp Leu Lys Glu Ser Pro Gly Lys Thr Leu Val Val Gly Ala Ser		
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Tyr Val Ala Leu Glu Cys Ala Gly Phe Leu Thr Gly Ile Gly Leu Asp		
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Thr Phe Asp Thr Val Leu Trp Ala Ile Gly Arg Val Pro Asp Thr Arg		
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Ser Leu Asn Leu Glu Lys Ala Gly Val Asp Thr Ser Pro Asp Thr Gln		
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Lys Ile Leu Val Asp Ser Arg Glu Ala Thr Ser Val Pro His Ile Tyr		
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Asp Leu Met Asp Tyr Asp Asn Val Pro Thr Thr Val Phe Thr Pro Leu		
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Glu Tyr Gly Cys Val Gly Leu Ser Glu Glu Glu Ala Val Ala Arg His		
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102080-9020800

485

490

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<223> tga(1664)..(1666) is transrated to selenosysteine, shown by Xaa.

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agccacc atg gag gac caa gca ggt cag cgg gac tat gat ctc ctg gtg 229

Met Glu Asp Gln Ala Gly Gln Arg Asp Tyr Asp Leu Leu Val
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gtc ggc ggg gga tct ggt ggc ctg gct tgt gcc aag gag gcc gcc cag 277

Val Gly Gly Gly Ser Gly Gly Leu Ala Cys Ala Lys Glu Ala Ala Gln
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ctg gga agg aag gtg gcc gtg gtg gac tac gtg gaa cct tct ccc caa 325

Leu Gly Arg Lys Val Ala Val Val Asp Tyr Val Glu Pro Ser Pro Gln
35 40 45

ggc acc cgg tgg ggc ctc ggc ggc acc tgc gtc aac gtg ggc tgc atc 373

Gly Thr Arg Trp Gly Leu Gly Gly Thr Cys Val Asn Val Gly Cys Ile
50 55 60

ccc aag aag ctg atg cac cag gcg gca ctg ctg gga ggc ctg atc caa 421

Pro Lys Lys Leu Met His Gln Ala Ala Leu Leu Gly Gly Leu Ile Gln
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gat gcc ccc aac tat ggc tgg gag gtg gcc cag ccc gtg ccg cat gac 469

Asp Ala Pro Asn Tyr Gly Trp Glu Val Ala Gln Pro Val Pro His Asp
80 85 90

tgg agg aag atg gca gaa gct gtt caa aat cac gtg aaa tcc ttg aac 517

Trp Arg Lys Met Ala Glu Ala Val Gln Asn His Val Lys Ser Leu Asn
95 100 105 110

tgg ggc cac cgt gtc cag ctt cag gac aga aaa gtc aag tac ttt aac 565

Trp Gly His Arg Val Gln Leu Gln Asp Arg Lys Val Lys Tyr Phe Asn
115 120 125

T02030-9070660

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Thr	Ser	Val	Pro	His	Ile	Tyr	Ala	Ile	Gly	Asp	Val	Val	Glu	Gly	Arg	
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Gln	Cys	Tyr	Val	Lys	Met	Val	Cys	Leu	Arg	Glu	Pro	Pro	Gln	Leu	Val																			
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35 40 45

Arg Trp Gly Leu Gly Gly Thr Cys Val Asn Val Gly Cys Ile Pro Lys
50 55 60

Lys Leu Met His Gln Ala Ala Leu Leu Gly Gly Leu Ile Gln Asp Ala
65 70 75 80

Pro Asn Tyr Gly Trp Glu Val Ala Gln Pro Val Pro His Asp Trp Arg
85 90 95

Lys Met Ala Glu Ala Val Gln Asn His Val Lys Ser Leu Asn Trp Gly
100 105 110

His Arg Val Gln Leu Gln Asp Arg Lys Val Lys Tyr Phe Asn Ile Lys
115 120 125

Ala Ser Phe Val Asp Glu His Thr Val Cys Gly Val Ala Lys Gly Gly
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Lys Glu Ile Leu Leu Ser Ala Asp His Ile Ile Ile Ala Thr Gly Gly
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Arg Pro Arg Tyr Pro Thr His Ile Glu Gly Ala Leu Glu Tyr Gly Ile
165 170 175

Thr Ser Asp Asp Ile Phe Trp Leu Lys Glu Ser Pro Gly Lys Thr Leu
180 185 190

Val Val Gly Ala Ser Tyr Val Ala Leu Glu Cys Ala Gly Phe Leu Thr
195 200 205

Gly Ile Gly Leu Asp Thr Thr Ile Met Met Arg Ser Ile Pro Leu Arg
210 215 220

Gly Phe Asp Gln Gln Met Ser Ser Met Val Ile Glu His Met Ala Ser
225 230 235 240

His Gly Thr Arg Phe Leu Arg Gly Cys Ala Pro Ser Arg Val Arg Arg
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Leu Pro Asp Gly Gln Leu Gln Val Thr Trp Glu Asp Ser Thr Thr Gly
260 265 270

Lys Glu Asp Thr Gly Thr Phe Asp Thr Val Leu Trp Ala Ile Gly Arg
275 280 285

Val Pro Asp Thr Arg Ser Leu Asn Leu Glu Lys Ala Gly Val Asp Thr
290 295 300

093006-90403601

Ser Pro Asp Thr Gln Lys Ile Leu Val Asp Ser Arg Glu Ala Thr Ser
 305 310 315 320
 Val Pro His Ile Tyr Ala Ile Gly Asp Val Val Glu Gly Arg Pro Glu
 325 330 335
 Leu Thr Pro Thr Ala Ile Met Ala Gly Arg Leu Leu Val Gln Arg Leu
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 Phe Gly Gly Ser Ser Asp Leu Met Asp Tyr Asp Asn Val Pro Thr Thr
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 Val Phe Thr Pro Leu Glu Tyr Gly Cys Val Gly Leu Ser Glu Glu Glu
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 385 390 395 400
 Tyr Lys Pro Leu Glu Phe Thr Val Ala Gly Arg Asp Ala Ser Gln Cys
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<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:synthesis

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<210> 15

<211> 21

<212> DNA

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<220>

<223> Description of Artificial Sequence:synthesis

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<220>
<223> Description of Artificial Sequence:synthesis

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<220>
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agccaccatg gaggaccaag 200

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<211> 69
<212> DNA
<213> Homo sapiens

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10200-302000

69

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cac
63
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cctggaaaaa c 71

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<213> Homo sapiens

<400> 27
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T02030-302030

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 <212> DNA
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195

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[illegible]